

Integrating Water Management in California

Water Plan Update 2013

Delta Conservancy
Board Briefing
March 27, 2013

California **Water Plan** Highlights

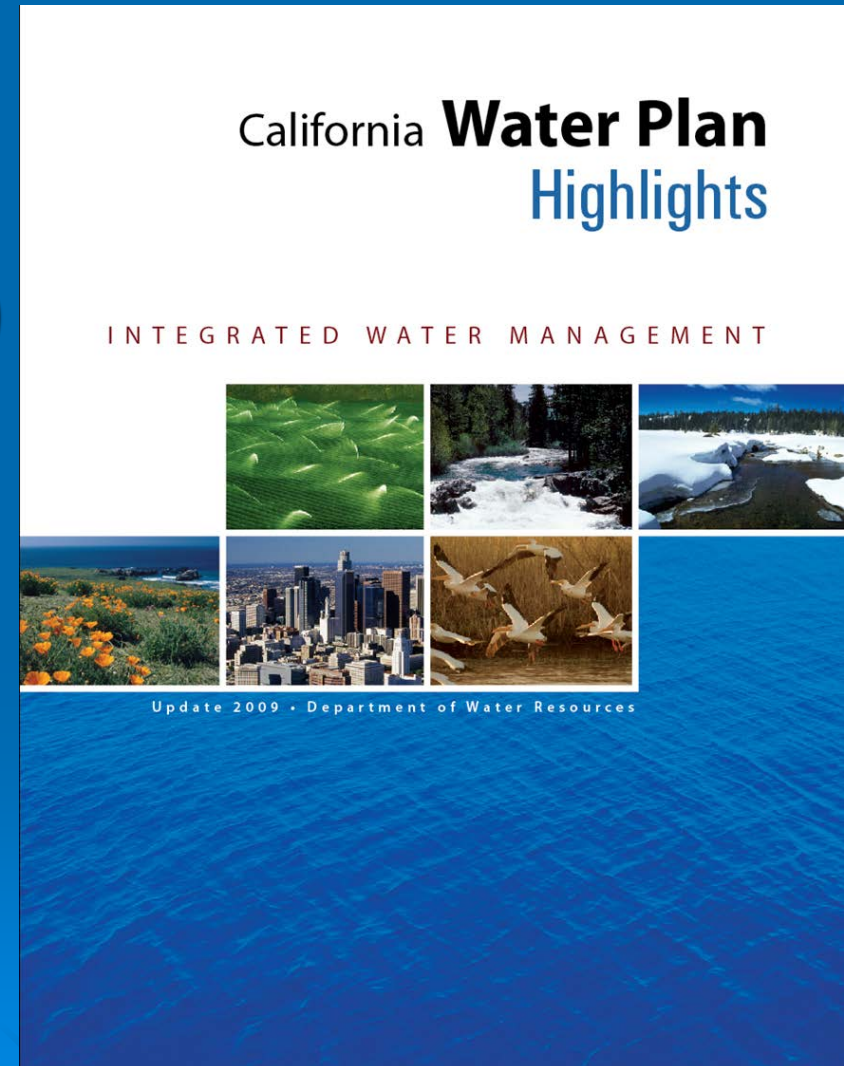
INTEGRATED WATER MANAGEMENT



Update 2009 • Department of Water Resources

The California Water Plan

- First published in 1957 as Bulletin 3
- Updated 9 times as Bulletin 160
→ Update 2009 released Mar 2010
- Water Code requires DWR to update Water Plan every 5 years
→ next one in 2013
- Growing interest by Legislature & stakeholders
- No mandates & No appropriation



Water Plan Process Evolution

2000 - 2013

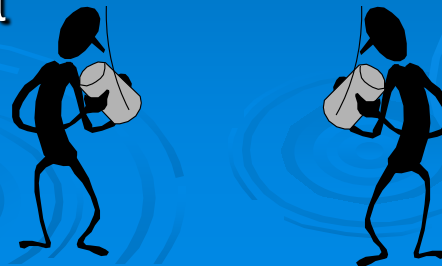
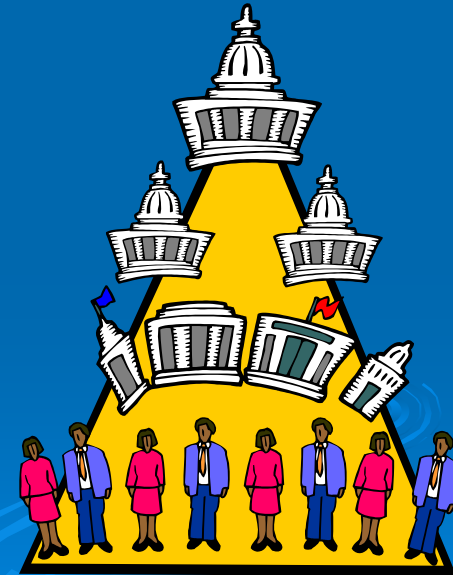
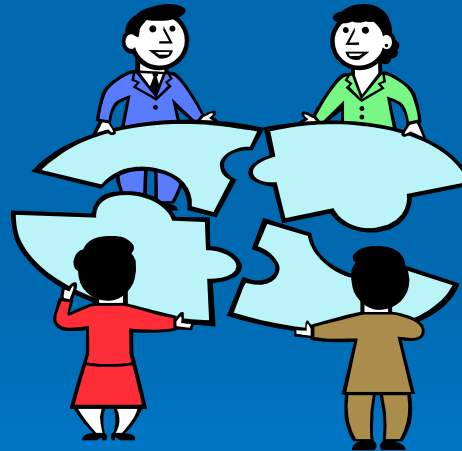
➤ Broad critique of Update 1998

➤ New approach

- Open & transparent public process
- Collaborative recommendations
- A strategic plan

➤ New process tools for:

- Improving communication
- Improving access
- Improving collaboration
- Improving agency alignment
- Tracking progress / metrics



Update 2009 – State's Blueprint Integrated Water Management & Sustainability



VISION

- Public Health, Safety, Quality of Life
- Vitality, Productivity, Economic Growth
- Healthy Ecosystem, Cultural Heritage

Foundational Actions for **SUSTAINABLE WATER USES**

- Use Water Efficiently
- Protect Water Quality
- Expand Environmental Stewardship

Initiatives for **RELIABLE WATER SUPPLIES**

- Expand Integrated Regional Water Management
- Improve Statewide Water and Flood Management Systems

3 I's - Invest in Innovation & Infrastructure

California State Government in partnership with others should invest in water innovation & infrastructure to support integrated water management and sustainable outcomes

➤ Innovation actions

- Governance improvements
- Planning & public engagement improvements
- Agency alignment (data, plans, policies & regulations)
- Information technology (data & tools)
- Water technology / R&D

➤ Infrastructure improvements -- natural (green) & human (grey)

- Regional projects
- Inter-regional projects
- Statewide systems

➤ State Investments - Finance Plan

- Stable funding for innovation actions & statewide systems
- Seed money to incentivize regional infrastructure improvements



Integrated Regional Water Management

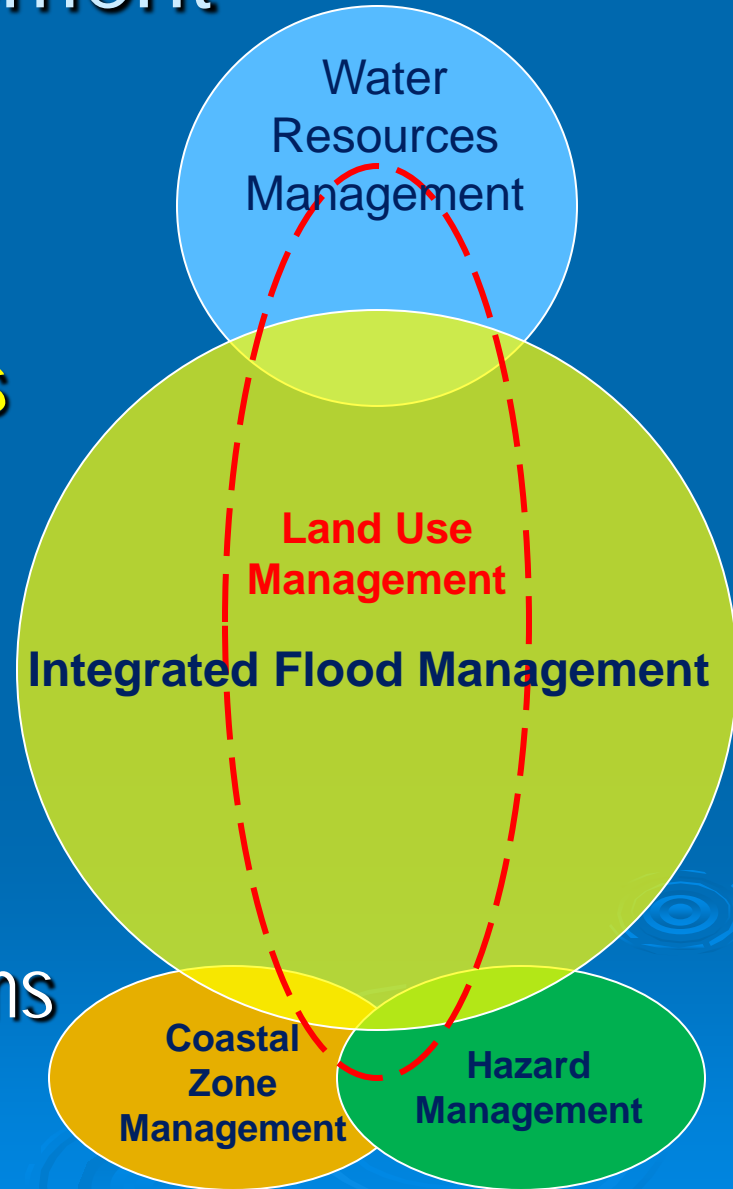
48 Regional Water Mgmt Groups

- Foster partnerships & promote regional solutions
- Diversify water portfolios & integrate supplies
- Leverage economies of scale to reduce costs
- Integrate data, tools & resources
- Invest in multi-benefit projects with sustainable outcomes
- Increase regional self-sufficiency



Integrated Flood Management

- Comprehensive approach to flood management
- Considers land & water resources at watershed scale
- Minimizes loss of life and property damage from flooding
- Maximizes benefits of floodplains
- Recognizes benefits to ecosystems from periodic floods



Improving Coordination Land Use Planning & Water Management

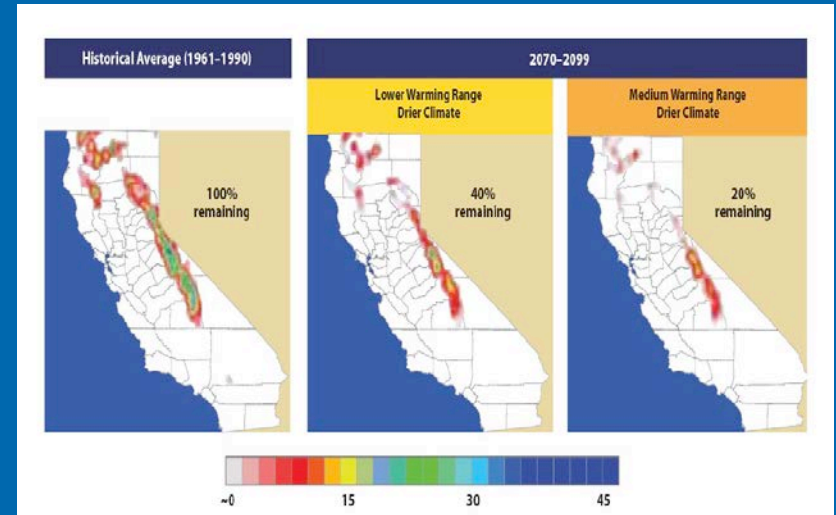


- Land use planning controlled locally
- Water management decentralized -- over 2,300 counties, cities, public agencies, and private water companies
- IRWM coordinates land use planning with water supply, quality, flood management, and climate adaptation
- State Government provides technical assistance and financial incentives
- More coordination among State agencies & with IRWM Partnerships

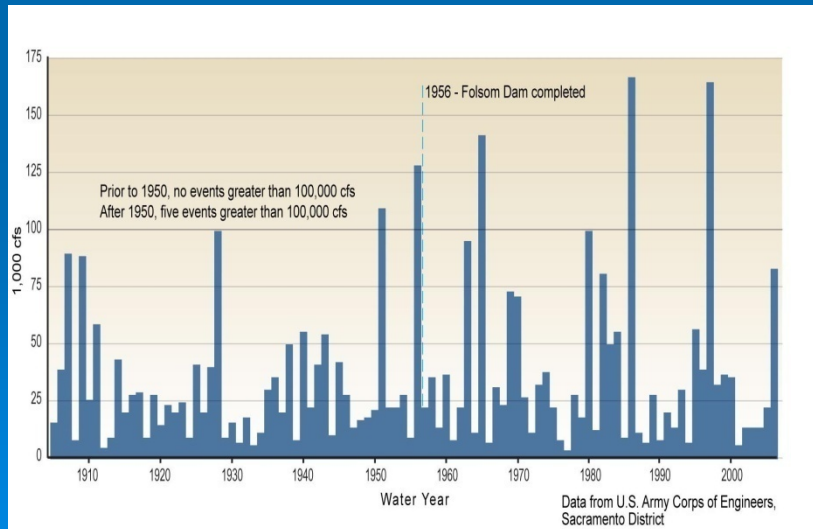
Climate Change: Future Hydrology Unlike the Past



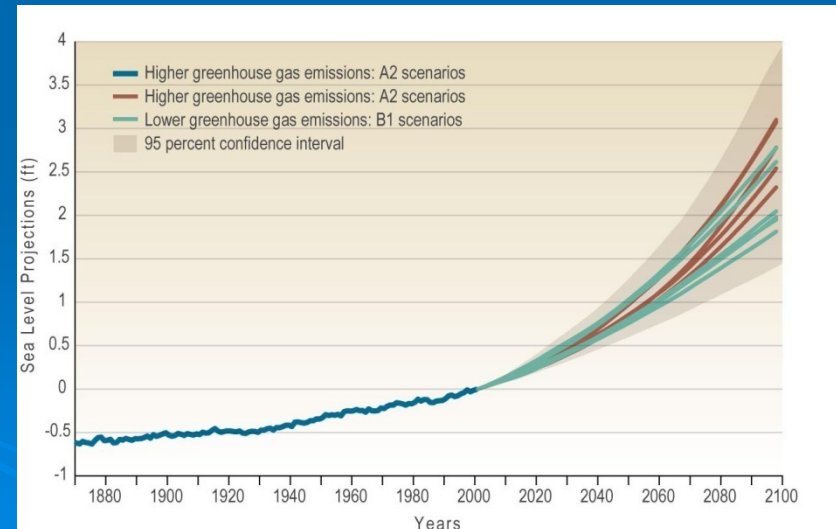
Higher air & water temperature



Early snowmelt & less snowpack



Changing runoff pattern



Rising sea level

27+ 3 New Resource Management Strategies

A Range of Choices

Reduce Water Demand

- Agricultural Water Use Efficiency
- Urban Water Use Efficiency

Improve Operational Efficiency & Transfers

- Conveyance – Delta
- Conveyance – Regional / Local
- System Reoperation
- Water Transfers

Increase Water Supply

- Conjunctive Management & Groundwater
- Desalination –Brackish Water & Seawater
- Precipitation Enhancement
- Municipal Recycled Water
- Surface Storage – CALFED
- Surface Storage – Regional / Local

Improve Flood Management

- Flood Management

Improve Water Quality

- Drinking Water Treatment & Distribution
- Groundwater / Aquifer Remediation
- Matching Water Quality to Use
- Pollution Prevention
- Salt & Salinity Management
- Urban Stormwater Runoff Management

Practice Resource Stewardship

- Agricultural Land Stewardship
- Economic Incentives
(Loans, Grants & Water Pricing)
- Ecosystem Restoration
- Forest Management
- Land Use Planning & Management
- Recharge Area Protection
- Water-Dependent Recreation
- Watershed Management

New – Education & Outreach
Sediment Management
Water & Culture

We are working on Update 2013



California Water Plan Update 2013

California Water Plan Update 2013 (Update 2013) is currently being developed by staff from the Department of Water Resources (DWR) and other agencies through rigorous public involvement and State and federal agency coordination processes. It will build on the contents of the previous update — the five-volume *California Water Plan Update 2009*, which provided a strategic plan, a suite of resource management strategies, reports on California's hydrologic regions, and reference and technical guides — and will introduce a number of key additions and enhancements in response to stakeholder recommendations and evolving decision-maker information needs.

Integrated water management is a collection of policies, practices, and tools applied to water resources planning and management to achieve multiple objectives and enhanced outcomes.

Water Plan Framework for Integrated Water Management and Sustainability



Investing in Innovation and Infrastructure

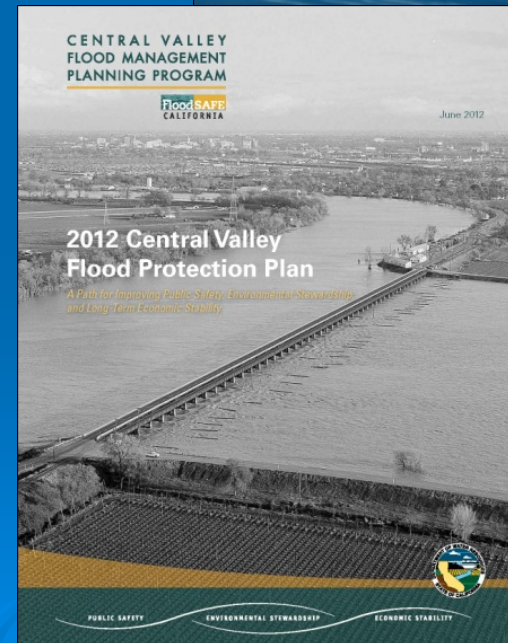
Update 2013 Topic Caucuses & Focus Areas

- Finance Plan
- Groundwater
- Water Quality
- Integrated Flood Management
- Water Technology / R&D
- DAC / Environmental Justice
- Sustainability Indicators
- Scenarios – Planning for Future Uncertainty



Update 2013 Companion Plans (Partial List)

- California's Flood Future Report
- Central Valley Flood Protection Plan
- Alluvial Fan Task Force Report
- California Emergency Plan (Cal-EMA)
- Threat Identification and Risk Assessment (Cal-EMA)
- Strategic Plan for Future of IRWM
- Delta Stewardship Council Delta Plan
- Bay Delta Conservation Plan
- Water Commission Strategic Plan
- Plus 30 other plans ...



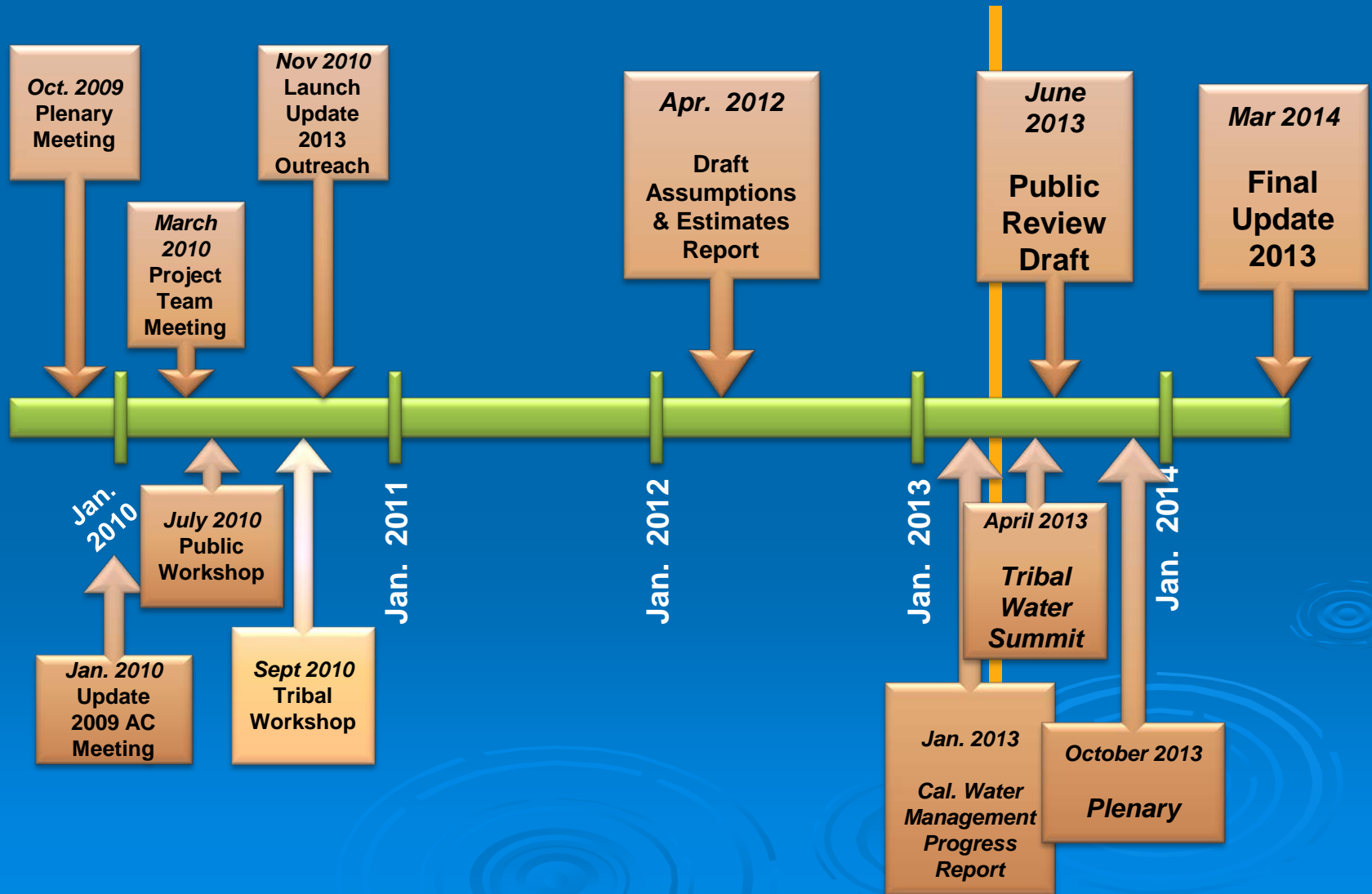
Variable Conditions & Unique Responses 12 Regional Reports



- Setting
- Regional Water Conditions
- Relationship with Other Regions
- Regional Water and Flood Planning and Management
- Looking to the Future
- Water Portfolios 1998-2005
- Selected References

Update 2013 Scoping & Deliverables

We Are Here



Ways to Access Water Plan Information

- Visit the *Water Plan Web Portal*
www.waterplan.water.ca.gov

California Water Plan eNews
Special Edition
March 30, 2010

This weekly electronic newsletter is designed to keep you current on California Water Plan news. We welcome comment, suggestions and any news tips that may be of interest to water planners.

California Water Plan Update 2009
Integrated Water Management
Bulletin 160-09 Department of Water Resources

California Water Plan Update 2009 released

Today, the California Department of Water Resources released the California Water Plan Update 2009 – a product of four years of collaboration. It's a water plan for the entire state and is available online. Integrated water management and sustainability is the thread of continuity throughout Update 2009. It gives all Californians a new direction for water decisions about such challenges as threatened ecosystems, the uncertainties of climate change and a rising sea level, and population growth. It spells out the urgency that demand

- [Read Press Release](#)
- [Read Special Plan](#)

The Water Plan came from a steering committee representing 21 State agencies, a 45-member public advisory committee, nearly 40 regional workshops held around the state, about 150 meetings with more than 26,500 person-hours of conversations about our water. Update 2009 is the State's blueprint for sustainability and integrated water management and makes a significant new chapter in the way California manages its water resources.

Secretary's Message
Secretary of California Natural Resources Agency Letter Snice delivers his message about Update 2009.

Highlights
The Highlights section of Update 2009 provides an easy-to-read overview of the document.

Strategic Plan, Volume 1
Update 2009 includes a strategic plan with a vision, mission, goals, recommendations, and implementation plan.

Resource Management Strategies, Volume 2
Think of these strategies as tools in a tool kit. There are nearly 30 strategies for addressing integrated water management.

Director's Message
Director of California Department of Water Resources Mark Coult writes the foreword to Update 2009.

Click on links below for more information.
Upcoming Meetings Water Plan Web site



California Water Plan Update 2009
Integrated Water Management
Bulletin 160-09 Department of Water Resources

Release and Contact Information

	eNews Special Edition	1.1 MB
	Rollout Filter	0.9 MB

Secretary's Message

The strategies outlined in these pages provide the means to manage resources comprehensively, from snowmelt to estuary, from field to tap, and all of the uses within the watershed.

[Video of former Director Snice giving his address at the Planary meeting on](#)

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Questions & Comments



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